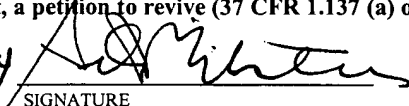


Form PTO-1390 (REV. 10-2003)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTORNEY'S DOCKET NUMBER 85188009	
<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371</b>				U.S. APPLICATION NO. (if known, see 37 CFR 1.5)	
				<b>10/511066</b>	
INTERNATIONAL APPLICATION NO. PCT/GB03/01509		INTERNATIONAL FILING DATE 8 April 2003		PRIORITY DATE CLAIMED 9 April 2002	
TITLE OF INVENTION PIPE REPAIR SYSTEM AND DEVICE					
APPLICANT(S) FOR DO/EO/US Jean Maureen BALL, legal representative of deceased inventor Daniel Graham BALL					
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:					
<ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</li> <li>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ol> </li> <li>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</li> <li>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol>					
<b>Items 11 to 20 below concern document(s) or information included:</b> <ol style="list-style-type: none"> <li>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>13. <input checked="" type="checkbox"/> A preliminary amendment.</li> <li>14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</li> <li>15. <input type="checkbox"/> A substitute specification.</li> <li>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 – 1.825.</li> <li>18. <input checked="" type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</li> <li>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</li> <li>20. <input checked="" type="checkbox"/> Other items or information: International Search Report; Return Receipt Post Card.</li> </ol>					
<b>**The thirty month due date for filing this national phase application was April 9, 2004, however because this date fell on a weekend that was followed by a holiday, the date of this submission falls within the due date.</b>					

DT04 Rec'd PCT/PTO 1 2 OCT 2004

U.S. APPLICATION NO. (if known) <b>10/511066</b> INTERNATIONAL APPLICATION NO. <b>PCT/GB03/01509</b>		ATTORNEY'S DOCKET NUMBER <b>85328-88009</b>	
21. <input type="checkbox"/> The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) (5)):</b> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO..... <b>\$1110.00</b>  International preliminary examination fee (37 CFR 1.428) not paid to USPTO but International Search Report prepared by the EPO or JPO..... <b>\$950.00</b>  International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... <b>\$790.00</b>  International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)..... <b>\$750.00</b>  International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4)..... <b>\$100.00</b> <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>		<b>CALCULATIONS PTO USE ONLY</b>	
		\$950.00	
Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		\$130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total Claims	7 -20 =	0	X <b>\$18.00</b>
Independent Claims	3 -3 =	0	X <b>\$88.00</b>
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ <b>\$300.00</b>	
<b>TOTAL OF ABOVE CALCULATIONS =</b>		\$1080.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		\$	
<b>SUBTOTAL =</b>		\$1080.00	
Processing fee of <b>\$130.00</b> for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).		\$	
<b>TOTAL NATIONAL FEE =</b>		\$1080.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property +		\$	
<b>TOTAL FEES ENCLOSED =</b>		\$1080.00	
		<b>Amount to be refunded:</b>	\$
		<b>charged:</b>	\$
a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1080.00</u> to cover the above fees is enclosed.  b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.  c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>07-1985</u> . A duplicate copy of this sheet is enclosed.  d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card</b> <b>information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.			
<b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137 (a) or (b))          must be filed and granted to restore the application to pending status.</b>			
SEND ALL CORRESPONDENCE TO: Greensfelder, Hemker & Gale, PC 10 S. Broadway 2000 Equitable Building St. Louis, Missouri 63102 Telephone: (314) 241-9090 Facsimile: 314-345-4704		<div style="text-align: center;">           SIGNATURE       </div> <div style="text-align: center;">         Peter S. Gilster          NAME       </div> <div style="text-align: center;"> <u>25,337</u>          REGISTRATION NUMBER       </div>	

10/511066  
DT Rec'd PCT/PTO 12 OCT 2004

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: : Attorney Docket: 85328-88009  
:  
Jean Maureen BALL, legal representative of : Group Art Unit: Unassigned  
deceased inventor Daniel Graham BALL :  
:  
Application Serial No: Unassigned : Examiner: Unassigned  
:  
Filed: Concurrently Herewith :  
:  
For: PIPE REPAIR SYSTEM AND DEVICE

CERTIFICATION OF MAILING  
UNDER 37 C.F.R. SECTIONS 1.8(a) AND 1.10

Mail Stop: PCT  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

I hereby certify that, on the date shown below, this correspondence and enclosures identified below are being deposited with the United States Postal Service in an envelope addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

## 37 C.F.R. Section 1.8(a)

[ ] with sufficient postage as first class  
mail.

## 37 C.F.R. Section 1.10\*

[ X ] as "Express Mail Post Office to Addressee"  
Mailing Label No. EV314819473US

## Enclosures:

- 1) PCT National Phase Patent Application Transmittal (2 pages);
- 2) Copy of Published PCT Application (19 pages);
- 3) Preliminary Amendment (6 pages);
- 4) Information Disclosure Statement (6 pages);
- 5) Fees in the amount of \$1080.00;
- 6) Return Receipt Post Card.

Please charge any deficiency in fees and please credit any excess in fees in connection with this submission to Deposit Account 07-1985.

Respectfully submitted,

Oct. 12, 2004  
Date

Dianna Swarrigin  
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